

WHAT IS CLAIMED IS:

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1. A component comprising at least one support member (1) having a first connecting portion and at least one part (6, 28) having a second connecting portion (7), wherein said second connecting portion (7) is connected to said first connecting portion, wherein at least said second connecting portion (7) of said at least one part (6, 28) is comprised of poly fluorocarbon, wherein at least said connecting portion (7) is activated by plasma treatment for connecting said at least one support member (1) and said at least one part (6, 28).

2. A component according to claim 1, wherein said at least one support member (1) and said connecting portion (7) are connected without an intermediate bonding agent layer.

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3. A component according to claim 1, wherein said poly fluorocarbon is a homo polymer.

4. A component according to claim 1, wherein said poly fluorocarbon is polytetrafluoroethylene or poly (vinylidene fluoride) or poly (vinyl fluoride).

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5. A component according to claim 1, wherein said poly fluorocarbon is a copolymer containing at least one fluorocarbon monomer.

6. A component according to claim 5, wherein said copolymer is fluoroethylene- propylene copolymer or vinylidene

fluoride-hexafluoropropylene copolymer or ethylene-tetrafluoroethylene copolymer or perfluoro alkoxyalkane copolymer.

7. A component according to claim 1, wherein at least said first connecting portion of said at least one support member (1) consists of plastic material.

8. A component according to claim 7, wherein said plastic material is a thermoplastic material or a thermoset plastic material or an elastomer.

9. A component according to claim 8, wherein said plastic material is poly (phenylene sulfide) and wherein said at least one support member is activated by plasma treatment.

10. A component according to claim 1, wherein said at least one support member (1) supports a sealing ring.

11. A component according to claim 10, wherein said at least one support member (1) is cup-shaped.

12. A component according to claim 1, wherein said at least one part (6, 28) is a sealing element of a sealing ring.

13. A component according to claim 1, wherein said at least one support member (1) comprises at least one elastomer element (5).

14. A component according to claim 1, wherein said at least one elastomer element (5) is said first connecting portion.

15. A component according to claim 14, wherein said at

least one elastomer encloses said at least one support member (1) at least partially.

16. A component according to claim 1, wherein said at least one part (6, 28) contains fillers and additives.

17. A method for producing a connection between a first connecting portion of a support member (1) and a second connecting portion of a part (6, 28), wherein at least said second connecting portion (7) of said part (6, 28) is comprised of poly fluorocarbon, said method comprising the steps of:

activating by plasma treatment at least said second connecting portion (7);
placing said second connecting portion (7) of said part (6, 28) onto said first connecting portion of said support member (1);

applying heat or pressure or both heat and pressure onto said first and second connecting portions to fixedly connect said part (6, 28) to said support member (1).

18. A method according to claim 17, further comprising the step of covering said support member (1) at least partially with an elastomer element (5) before said step of placing.

19. A method according to claim 18, wherein said first connecting portion is located at said elastomer element (5).

20. A method according to claim 17, wherein said support member (1) consists of a material having anti-adhesive properties

for at least one auxiliary part (29, 30) not consisting of poly fluorocarbon.

21. A method according to claim 20, wherein said at least one auxiliary part is a seal.

5 22. A method according to claim 21, further comprising the step of producing said at least one auxiliary part from an elastomer or a thermoplastic material.

10 23. A method according to claim 17, further comprising the step of plasma treating said support member (1).

24. A method according to claim 23, further comprising the step of manufacturing said support member from a hard thermoplastic material.

15 25. A method according to claim 24, wherein said thermoplastic material is poly (phenylene sulfide).